## LISTING OF THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

## 1-33. Cancelled

- 34. (New) A UV curable coating composition which is abrasion resistant, comprising:
  - a) trimethylolpropane triacrylate in an amount between about 5% and about 85% by weight of the composition,
  - b) hexandiol diacrylate in an amount between about 1 and about 30% by weight of the composition,
  - c) silica nanoparticles in an amount between about 30 and about 50% by weight of the composition and wherein at least about 50% of the silica nanoparticles are present as a premix with trimethylolpropane triacrylate, and
- d) at least one photoinitiator which absorbs only in the UV range of the electromagnetic spectrum; and wherein a coating of the UV curable coating composition maintains about 95% or higher of its post-cure gloss when subjected to about 100 cycles of grade 3 steel wool with a load of about 50 lbs applied per Federal Specification FF-W-1825.

- 35. (New) The UV curable coating composition of Claim 34, wherein the trimethylolpropane triacrylate is present in an amount between 5-69% by weight of the composition.
- 36. (New) The UV curable coating composition of Claim 34, wherein the silica nanoparticles have a particle size in the range of 1 to 1,000 nm.
- 37. (New) The UV curable coating composition of Claim 34, wherein the silica nanoparticles have a particle size of less than about 50 nm.
- 38. (New) The UV curable coating composition of Claim 34, wherein the silica nanoparticles are present in a colloidal dispersion with the curable acrylates of the composition.
- 39. (New) The UV curable coating composition of Claim 34, wherein the silica nanoparticles are spherical, non-porous, amorphous, non-agglomerated and monodispersed.
- 40. (New) The UV curable coating composition of Claim 34, wherein the silica nanoparticles have a particle size range of about 10 nm to about 50 nm.

- 41. (New) The UV curable coating composition of Claim 34, further comprising a reactive diluent.
- 42. (New) The UV curable coating composition of Claim 41, wherein the reactive diluent is N,N-dimethyl acrylamide.
- 43. (New) The UV curable coating composition of Claim 34, further comprising at least one light stabilizer.
- 44. (New) The UV curable coating composition of Claim 43, wherein at least one light stabilizer is selected from the group consisting of hindered amine light stabilizers, hydroxyphenyltriazines, hydroxybenzotriazoles, and combinations thereof.
- 45. (New) The UV curable coating composition of Claim 34, wherein the composition has a viscosity of about 5 to about 3000 cps.

- 46. (New) An abrasion resistant road reflector comprising at least one surface with a coating thereon of a composition comprising:
  - a) trimethylolpropane triacrylate in an amount between about 5% and about 85% by weight of the composition,
  - b) hexandiol diacrylate in an amount between about 1 and about 30% by weight of the composition,
  - c) silica nanoparticles in an amount between about 30 and about 50% by weight of the composition and wherein at least about 50% of the silica nanoparticles are present as a premix with trimethylolpropane triacrylate, and
  - d) at least one photoinitiator which absorbs only in the UV range of the electromagnetic spectrum; and wherein the coating maintains about 95% or higher of its postcure gloss when subjected to about 100 cycles of grade 3 steel wool with a load of about 50 lbs applied per Federal Specification FF-W-1825.